

WHAT IS CLAIMED IS:

1. A method of positioning an implant in a body, comprising:

5 providing the implant, a delivery member, a temporary connection, and a catheter,

inserting the catheter within a vascular cavity in the body;

attaching the implant to a distal end of the delivery member with the temporary connection;

10 advancing the delivery member, the temporary connection and the implant through a proximal end of the catheter; and

monitoring an electrical condition related to a position of the temporary connection in the catheter, the electrical condition changing when the temporary connection reaches a predetermined location.

2. The method of claim 1, monitoring the electrical condition further comprising monitoring a current.

20 3. The method of claim 1, monitoring the electrical condition further comprising monitoring a voltage.

4. The method of claim 1, monitoring the electrical condition further comprising monitoring an impedance.

25

5. The method of claim 1, further comprising generating an output signal in response to the changed electrical condition.

6. The method of claim 5, generating the output signal further comprising generating a visual signal.

7. The method of claim 5, generating the output signal further comprising generating an audio signal.

8. The method of claim 5, further comprising breaking the temporary connection and detaching the implant from the distal end of the delivery member.

9. The method of claim 8, further comprising providing the output signal to a user, the temporary connection being broken in response to user input.

10. The method of claim 8, further comprising providing the output signal to a controller, the temporary connection being broken in response to the controller.

11. The method of claim 8, breaking the temporary connection further comprising breaking an electrolytic connection.

12. The method of claim 11, breaking the electrolytic connection further comprising:

providing a current through the delivery member and the temporary connection; and

corroding a portion of the temporary connection.

13. The method of claim 12, corroding the portion of the temporary connection further comprising corroding a stainless steel portion of the delivery member that is exposed to blood in the vascular cavity.

5

14. The method of claim 8, breaking the temporary connection further comprising breaking a mechanical connection.

10 15. The method of claim 8, breaking the temporary connection further comprising breaking the temporary connection with heat.

15 16. The method of claim 8, breaking the temporary connection further comprising breaking the temporary connection with Radio Frequency (RF) radiation.

20 17. The method of claim 8, breaking the temporary connection further comprising breaking the temporary connection hydraulically.

18. The method of claim 8, further comprising removing the delivery member and the catheter from the vascular cavity after detaching the implant.

25 19. The method of claim 1, further comprising insulating the implant from the temporary connection.

30 20. The method of claim 1, the electrical condition changing when the temporary connection reaches the distal end of the catheter.

21. The method of claim 1, the electrical condition changing when the temporary connection exits the distal end of the catheter.

5

22. The method of claim 1, providing the implant further comprising providing a vaso-occlusive implant.

23. The method of claim 1, providing the implant further comprising providing a coil.

10

24. The method of claim 23, providing the coil further comprising providing a Guglielmi Detachable Coil (GDC).

25. The method of claim 23, providing the coil further comprising providing a coil including platinum.

15

26. The method of claim 23, providing the coil further comprising providing a coil coated with a bio-reactive material.

20

27. The method of claim 23, providing the coil further comprising providing a bio-reactive coil.

28. The method of claim 23, providing the coil further comprising providing a non-bioreactive polymer coil.

25

30

29. A system for positioning an implant in a body, comprising:

a catheter having a proximal end and a distal end, the catheter being inserted into a vascular cavity in the body;

5 a delivery member;

a temporary connection joining the implant and a distal end of the delivery member; and

an electrical measurement device,

10 the delivery member, the temporary connection and the implant being advanced through the catheter, the electrical measuring device monitoring an electrical condition related to a position of the temporary connection in the catheter, the electrical condition changing when the temporary connection reaches a predetermined location.

15

30. The system of claim 29, the delivery member comprising a delivery wire.

31. The system of claim 29, the delivery member comprising
20 a tubular body.

32. The system of claim 29, the temporary connection comprising an electrolytic connection.

25 33. The system of claim 32, further comprising a power supply, the electrolytic connection being broken by current provided by the power supply through the delivery member and the temporary connection, the current corroding a portion of the temporary connection.

30

34. The system of claim 33, the portion of the temporary connection being corroded comprising a stainless steel portion of the delivery member that is exposed to blood in the vascular cavity.

5

35. The system of claim 33, the electrical monitoring device being included in the power supply.

36. The system of claim 33, the electrical monitoring
10 device being separate from the voltage supply.

37. The system of claim 29, the temporary connection comprising breaking a temporary mechanical connection.

15 38. The system of claim 29, the temporary connection comprising a temporary connection that is broken by application of heat.

39. The system of claim 29, the temporary connection
20 comprising a temporary connection that is broken with application of Radio Frequency (RF) radiation.

40. The system of claim 29, the temporary connection
25 comprising a temporary connection that is hydraulically broken.

41. The system of claim 29, the electrical condition comprising a current.

42. The system of claim 29, the electrical condition comprising a voltage.

43. The system of claim 29, the electrical condition
5 comprising an impedance.

44. The system of claim 29, the implant comprising a vaso-occlusive implant.

10 45. The system of claim 44, the implant comprising a coil.

46. The system of claim 45, the coil comprising a Guglielmi Detachable Coil (GDC).

15 47. The system of claim 45, the coil including platinum.

48. The system of claim 45, the coil having a bio-reactive material coating.

20 49. The system of claim 45, the coil comprising a bio-reactive coil.

50. The system of claim 45, the coil comprising a non-bio-reactive polymer coil.

25

51. The system of claim 29, the implant comprising a stent.

52. The system of claim 29, the implant comprising a
30 filter.

53. The system of claim 29, the electrical measurement device generating an output signal in response to the changed electrical condition.

5

54. The system of claim 53, the output signal comprising a visual signal.

10

55. The system of claim 53, the output signal comprising an audio signal.

15

56. The system of claim 53, the output signal being provided to a user and the temporary connection being broken in response to user input.

57. The system of claim 53, the output signal being provided to a controller, the temporary connection being broken in response to the controller.

20

58. The system of claim 29, further comprising an insulative member between the implant and the temporary connection.

25

59. The system of claim 29, the predetermined position comprising the distal end of the catheter.

30

60. The system of claim 59, the electrical condition changing when the temporary connection reaches the distal end of the catheter.

61. The system of claim 59, the electrical condition changing when the temporary connection exits the distal end of the catheter.

5 62. The system of claim 29, electrical measurement device comparing a reference current with a second current that is generated when the temporary connection reaches the predetermined location..

10 63. The system of claim 29, the electrical measurement device including a comparison circuit that compares a threshold current to a current measured by the electrical measurement device, the comparison circuit generating an output indicating whether the temporary connection reaches
15 a predetermined location.

64. The system of claim 29, further comprising a conductive wire connected between the electrical measurement device and the distal end of the catheter, the
20 electrical monitoring device detecting an electrical condition related to a position of the temporary connection in the catheter through the conductive wire.

65. The system of claim 64, the conductive wire being
25 inserted through the catheter.

66. The system of claim 29, the electrical monitoring device comprising a volt/current meter.

30